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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,884	03/22/2004	Rainer Fackert	04193/RSB	2674
1933	7590 04/19/2005		EXAM	INER
FRISHAUF, 767 THIRD A	HOLTZ, GOODMAI	TANINGCO, MARCUS H		
25TH FLOOR			ART UNIT	PAPER NUMBER
NEW YORK,	NY 10017-2023		2878	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summary	10/806,884	FACKERT, RAINER			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication of	Marcus H. Taningco	2878			
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with	n the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re ply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT te, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matte	• •			
Disposition of Claims					
4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-4,8 and 15-17</u> is/are rejected. 7) ☒ Claim(s) <u>5-7,9-14 and 18-21</u> is/are objected is	S)⊠ Claim(s) <u>1-4,8 and 15-17</u> is/are rejected. ')⊠ Claim(s) <u>5-7,9-14 and 18-21</u> is/are objected to.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on 22 March 2004 is/are. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Replacement of the second se	a)⊠ accepted or b)⊡ objection abeyand colors are drawing(s) be held in abeyand colors are discounting(section is required if the drawing(section is required in the drawing is required in the dr	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) ⊠ Acknowledgment is made of a claim for foreign a) ⊠ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority document 2. □ Certified copies of the priority document 3. □ Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. Ints have been received in Application of the control of	oplication No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date 6/14/04.9/13/04.1/	Paper No(s)	ımmary (PTO-413) /Mail Date ormal Patent Application (PTO-152)			

DETAILED ACTION

Claim Objections

Claim 4 is objected to because of the following informalities: The term "detect" should be replaced with the term "detects". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8, 15, and 16 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Shigeru (JP 10-002730).

Re claim 1, Shigeru discloses a method for the geometric measurement of a material strip 10, in which the strip thickness is determined at at least one measuring point A₁₁, A₁₃, A₁₄, A₁₅, A₁₆ arranged in the material strip 10 by means of a first measuring device 11, 12 in which the thickness deviations of the material strip 10 are determined in the longitudinal direction by means of a second measuring device 13, 14, 15, 16 and in which a correction of the measured values of the first measuring device is made by the measured values of the second measuring device [0014 – 0021] (Figs. 1-4).

Re claim 2, Shigeru discloses a method for the geometric measurement of a material strip 10 using radiation board thickness meters with a first measuring device 11, 12 to determine the strip thickness at at least one measuring point A₁₁, A₁₃, A₁₄, A₁₅, A₁₆

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arranged in the material strip 10; and with a first evaluating means 17 to evaluate the measured values recorded by the first measuring device, wherein: a second measuring device 13, 14, 15, 16 is provided, second evaluating means 17 are provided to evaluate the thickness deviations recorded by the second measuring device [0014 – 0021] (Figs. 1-4).

Re claim 3, Shigeru discloses a device for the geometric measurement of a material strip 10: with a first measuring device 11, 12 to determine the strip thickness at points A_{11} , A_{13} , A_{14} , A_{15} , A_{16} arranged in predetermined intervals in the longitudinal direction of the material strip 10; and in which the thickness of the material strip 10 are determined at the measuring points A_{13} , A_{14} , A_{15} , A_{16} by means of a second measuring device 13, 14, 15, 16 [0014 – 021].

Re claim 8, Shigeru discloses a method wherein the second measuring device is constructed to determine the thickness deviations and board profile of the material strip in the longitudinal direction and specifically at a plurality of points A_{13} , A_{14} , A_{15} , A_{16} transverse over the strip [0014 – 0021] (Figs. 1-4).

Re claim 15, Shigeru discloses a device for the geometric measurement of a material strip 10 with a first measuring device 11, 12 to determine the strip thickness at at least one measuring point A₁₁, A₁₃, A₁₄, A₁₅, A₁₆ arranged in the material strip 10 and with a first evaluating means 17 to evaluate the measured values recorded by the first measuring device, wherein a second measuring device 13, 14, 15, 16 is provided, second evaluating means 17 are provided to evaluate the measured values recorded by the second measuring device and correction means 17 are provided for correction of the measured values of the first measuring device by the measured values of the second

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measuring device, wherein furthermore the second measuring device is constructed to determine the thickness deviations of the material strip in the longitudinal direction and. specifically at a plurality of points A₁₁, A₁₃, A₁₄, A₁₅, A₁₆ transverse over the strip [0014 – 0021] (Figs. 1-4).

Re claim 16, Shigeru discloses radiation meters [0004] with a first measuring device 11, 12 to determine the strip thickness at at least one measuring point A_{11} , A_{13} , A_{14} , A_{15} , A_{16} arranged in the material strip 10.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shigeru in view of Flormann (US 6,480,802).

Re claim 4, Shigeru discloses the claimed invention but fails specify detecting at different spatial angles. Flormann discloses a method comprising the step of detecting at different spatial angles (Col. 6, Fig. 3). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Shigeru in order to measure the thickness, width, contour and flatness of the strip by covering different solid angles.

Re claim 17, Shigeru discloses the claimed invention according to claim 16, but fails to specify at least two radiation sources. Flormann discloses a method wherein: at

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least two radiation sources 10, 12 arranged transverse to the longitudinal direction and at a distance from another; a plurality of detectors 14, 16 arranged transverse to the longitudinal direction and at a distance from the sources 10, 12; the material strip 2 is arranged between the radiation sources 10, 12 and the detectors 14, 16; that in each case, two detectors 14, 16 are aligned on two different sources 10, 12, and form a pair of detectors; that the axis formed in each case by the detectors 14, 16 of one pair and the sources 10, 12 intersect essentially in the area of the material strip 2 and a measurement point is therefore specified. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify in order to measure the thickness, contour, the shape and position over the width of a material strip.

Allowable Subject Matter

Claims 5-7 and 9-14, and 18-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Re claim 5, prior art discloses a method according to claim 1 but fails to recite the limitation wherein the second measuring device projects a line perpendicular to the longitudinal direction with which the shape and spatial location of the material strip along the line is determined.

Re claim 9, prior art discloses a method for determining the thickness of a board by measuring board thickness distribution by scanning the board in the longitudinal direction by a first and second measuring device. Prior art fails to specify a step wherein

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the position of one measuring point inside the material strip is determined by the measured spatial location and shape of the material strip relative to a reference position.

Re claim 14, prior art discloses a method of measuring the edges and width of a material strip, but fails to specify limitation provided wherein the width is calculated from the spatial position of the edges of the material strip and the determined transverse contour of the material strip.

Re claim 18, prior art discloses a method wherein the second measuring device exhibits a laser projection device, but fails to specify the limitation wherein the second measuring means exhibits a camera for the acquisition of a projected line in a pixel matrix.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hold (US 4,542,297) discloses an apparatus for measuring profile thickness of strip material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus H. Taningco whose telephone number is (571) 272-1848. The examiner can normally be reached on M - F 8:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MT

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